**Reliable**

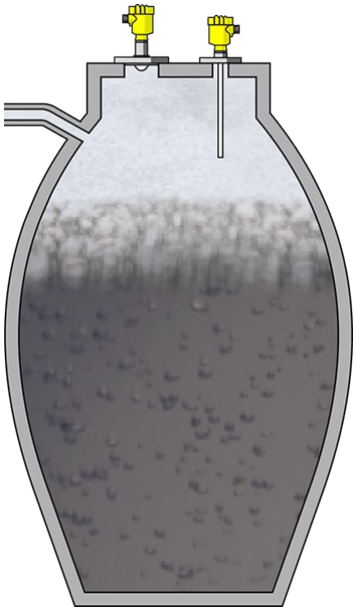
Reliable level measurement and protection against foam overfill

**Cost effective**

Continuous, maintenance-free operation of the digester

**User friendly**

Low maintenance costs and reliable gas production



# Digester

## Level measurement and point level detection of foam in the digester

The organic components of sewage sludge are decomposed under anaerobic conditions in heated, closed digestion tanks. In the process, combustible gases such as methane are released from the sludge. These are collected in a biogas tank and then converted into electricity and heat in cogeneration (CHP) plants. A level sensor controls the filling of the digester. To ensure that no foam gets into the gas system along with the collected gas, a point level sensor is used for monitoring.

**More details**

### VEGAPULS 6X

Level measurement with radar for control of the filling process

- Maintenance-free operation through non-contact measurement
- Accurate and reproducible measurement data, independent of gas concentration and pressure fluctuations
- Reliable measurement, even with foam and density changes
- Wireless operation via Bluetooth with smartphone, tablet or PC

**Show Product**

### VEGACAP 64

Detection of the conductive foam prevents it from entering the gas facility

- Reliable foam detection, even with different foam consistencies
- Unaffected by contamination and buildup
- Simple mounting and setup

**Show Product**

### VEGATOR 141

Double channel signal conditioning instrument for level detection

- Simple adjustment of the switching point through a potentiometer
- Clearly visible switching status via LED
- Simple installation through carrier rail mounting as well as detachable, coded terminals

**Show Product**

### VEGATRENN 141

Separator for the optimum supply of power to the connected sensors

- On-site diagnostics for direct display of status via LEDs
- Simple parametrization interface using the HART sockets for user-friendly operation
- Galvanic separation of sensors and PLC is secured

**Show Product**

PRO

## VEGAPULS 6X

Show Product

**Measuring range - Distance**
120 m

**Process temperature**
-196 ... 450 °C

**Process pressure**
-1 ... 160 bar

**Accuracy**
± 1 mm

**Frequency**
6 GHz
26 GHz
80 GHz

**Beam angle**
≥ 3°

**Materials, wetted parts**
PTFE
PVDF
316L
PP
PEEK

**Threaded connection**
≥ G¾, ≥ ¾ NPT

**Flange connection**
≥ DN20, ≥ ¾"

**Hygenic fittings**
Clamp ≥ 1½" - DIN32676, ISO2852
Slotted nut ≥ 2", DN50 - DIN 11851
Varivent ≥ DN25
hygienic fitting with tension flange DN32
hygienic fitting F40 with compression nut
Hygienic screw connections ≥ DN50 tube ø53 - DIN11864-1-A
Hygienice flange connection ≥ DN50 DIN11864-2
Hygienic clamp connection ≥ DN50 pipe Ø53 - DIN11864-3-A
DRD connection ø 65 mm
SMS 1145 DN51

PRO

## VEGACAP 64

Show Product

**Measuring range - Distance**
-

**Process temperature**
-50 ... 200 °C

**Process pressure**
-1 ... 64 bar

**Version**
PTFE insulation

**Materials, wetted parts**
PTFE
316L
Alloy C22 (2.4602)
Steel C22.8

**Threaded connection**
≥ G¾, ≥ ¾ NPT

**Flange connection**
≥ DN25, ≥ 1"

**Seal material**
no media contact

**Housing material**
Plastic
Aluminium
Stainless steel (precision casting)
Stainless steel (electropolished)

**Protection rating**
IP66/IP68 (0,2 bar)
IP66/IP67
IP66/IP68 (1 bar)

## VEGATOR 141

Show Product

**Protection rating**
IP20

**Input**
1 x 4 … 20 mA sensor input

**Output**
1 x operating relay (SPDT)
Optionally 1 x fail safe relay output (SPDT)

**Ambient temperature**
-20 ... 60 °C

**Signal input (specify)**
4 … 20 mA

**Signal output (specify)**
Operating relay
Fail safe relay

## VEGATRENN 141

**Show Product**

**Protection rating**

IP20

**Input**

1 x 4 … 20 mA/HART sensor input

**Output**

1 x 4 … 20 mA

**Ambient temperature**

-20 ... 60 °C